

TDD No.: F3-9012-17  
Site Name: SKF Ball Bearing  
(Red)

### SITE SAFETY PLAN

Site Name: SKF Ball Bearing Site Contact: \_\_\_\_\_  
Address: 1000 Logan Boulevard Phone Number: (814) 944-5381  
Altoona, PA 16602 Other Contacts: \_\_\_\_\_  
(814) 944-5381 EPA: Donna Santiago (215) 597-1110  
State: (Harrisburg) Tim Alexander  
(717) 657-4588

Purpose of Site Visit: EPI - PA  
Proposed Date of Work: Week of Jan. 21<sup>st</sup> 1991

#### Proposed Site Investigation Team

##### NUS Personnel:

Shari Harris - Dunning  
Steve Sottung  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

##### Responsibilities:

SITL  
SSO  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

##### Other:

bhn Szymosiak  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

##### Purpose:

Plant Engineer SKF  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

#### Plan Preparation

##### • Prepared by:

Shari Harris - Dunning 1/2/91  
Date

#### Approvals

##### • Regional Health and Safety Manager:

Bill Bares 1/16/91  
Date

##### • Regional Manager:

Richard M. Comey 1/16/91  
Date

**Background Information**Site Status: ☒ Active ☐ Inactive ☐ Unknown**Site Description (be specific; include topography, structures, etc.):**

S.K.F. Ball Bearings Division is located on 1000 Logan Boulevard, Altoona, Blair County, Pennsylvania. The facility measures approximately 580 feet (N-S) by 600 feet (E-W), and bordered on the east by route 220 and to the west by route 36.

The site is situated on approx 18 acres of land. Beaverdam Run is located about 1/4 miles west and downgradient of the site. Water from Beaverdam Run eventually flows to the Frankstown Branch of the Juniata River.

**Site History:**

S.K.F. Ball Bearings Division is a manufacturer of ball bearings. In the manufacturing process, machining, heat treating, grinding, honing and assembly operations are performed. As a result, wastes are generated, including: waste hydraulic oil, water soluble coolant, cutting oil, machining chips and scrap, kerosene, acid, and solvent waste solutions. The plant has been in existence since about August, 1952.

**Monitoring Used on Previous Site Work or Previous Sampling Data:**

No previous sampling or site work has been conducted. A NOV was issued in 1984 (July 13) for failure to have a permit for on-site hazardous waste stored on-site for more than 90 days and failure to comply with requirements for a PPC plan. On June 2, 1988, PADER fined the facility \$3,000 for failing to comply with several sections of the PA Solid Waste Management Act.

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**Hazard Evaluation**

• Waste Types: ☒ Liquid ☐ Solid ☐ Sludge ☐ Vapor  
• Characteristics: ☒ Corrosive ☒ Ignitable ☐ Radioactive  
☒ Volatile ☒ Toxic ☐ Reactive  
☐ Unknown ☐ Other: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Task: Site Recon / EPI-PA Low ☒ Medium \_\_\_\_\_ High \_\_\_\_\_

• Identification of Hazards/Hazard Assessment:

Hazardous wastes are stored in waste drum storage areas located inside the facility. No direct contact with any hazardous wastes will take place.  
\_\_\_\_\_  
\_\_\_\_\_

Task: \_\_\_\_\_ Low \_\_\_\_\_ Medium \_\_\_\_\_ High \_\_\_\_\_

• Identification of Hazards/Hazard Assessment:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Task: \_\_\_\_\_ Low \_\_\_\_\_ Medium \_\_\_\_\_ High \_\_\_\_\_

• Identification of Hazards/Hazard Assessment:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Task: \_\_\_\_\_ Low \_\_\_\_\_ Medium \_\_\_\_\_ High \_\_\_\_\_

• Identification of Hazards/Hazard Assessment:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Overall Hazard: ☐ Serious ☐ Moderate  
☒ Low ☐ Unknown

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Hazardous/Toxic Known or Suspected Materials	Concentration	Media	Toxic and Pharmacological Effects	IP	PEL, TLV, IDLH	Reactivity, Stability, Flammability	Special Monitoring Instrument
See pages 5 and 6							

ORIGINAL  
(Red)

Ball-Bearing Division

9012-17  
SKF Ball-Bearing

NAME Carbon tetrachloride  
SYNONYM carbon chloride  
CAS NO. 56-23-5  
EFFECT Heavy ethereal odor. Human carcinogen - low conc. causes nausea /vomitting. Leaves skin red & cracked. High concentrations causes kidney, liver and lung damage, unconsciousness and eventually death.  
TLV 5ppm 31mg/m3 skin  
PEL 2ppm, 12.6mg/m3 skin  
IDLH 300ppm  
REACTIVITY Highly volatile, dangerous when heated to decomp. emits phosgen  
INCOMPATIBILITY Chemically active metals (Sodium, magnesium, potassium)  
DOT HAZARD CLASS ORM-A  
RCRA WASTE NO. U211  
MONITORING DEV. Draeger, HNU 11.7  
ION POTENTIAL 11.28

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NAME Cyanide  
SYNONYM carbon nitride ion; isocyanide  
CAS NO. 151-50-8  
EFFECT As a salt - white solid with a faint almond smell. It absorbs through skin, causes skin/eye irrit.; weakness, confusion death by asphyxia.

TLV 5mg/m3/ skin  
PEL 5mg/m3 skin  
IDLH 50mg/m3  
REACTIVITY  
INCOMPATIBILITY Strong oxidizers (nitrates, chlorates, acids, acid salts)  
DOT HAZARD CLASS POISON B  
RCRA WASTE NO. P030  
MONITORING DEV. Draeger  
ION POTENTIAL

\*\*\*\*\*

NAME Arsenic  
SYNONYM  
CAS NO. 7440-38-2  
EFFECT Irritation of the G.I. tract, nausea, vomiting, diarrhea which can progress to shock and death.

TLV 0.2 mg/m3  
PEL 0.5 mg/m3  
IDLH carcinogen  
REACTIVITY Flammable when exposed to strong oxidizers.  
INCOMPATIBILITY Strong oxidizers  
DOT HAZARD CLASS  
RCRA WASTE NO. D004  
MONITORING DEV.  
ION POTENTIAL

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Ball-Bearing Division

9012-17  
SKF BALL BEARING

NAME Tetrachloroethylene  
SYNONYM carbon dichloride tetrachloroethene, Perchlor  
CAS NO. 127-18-4  
EFFECT A colorless liquid with an ether or chloroform odor; a susp. and  
mal carcinogen, it irritates the eyes and respiratory system; ca  
uses nausea, causes the face, neck to flush and can cause dizz  
iness.  
TLV 50ppm 339mg/m3  
PEL 25ppm 170mg/m3  
IDLH 500ppm  
REACTIVITY  
INCOMPATIBILITY strong oxidizers, chem. active metals barium, lithium, beryl  
DOT HAZARD CLASS ORM-A  
RCRA WASTE NO. U210  
MONITORING DEV.  
ION POTENTIAL 9.32

NAME TCE  
SYNONYM Trichloroethylene, trichloroethene  
CAS NO. 79-01-6  
EFFECT Known animal carcinogen. When inhaled can cause blurred vision,  
vertigo, sleepiness. Ingestion can cause tremors, sleepiness an  
d headaches. Contact can cause eye, nose, throat and skin irrita  
tion.  
TLV 50ppm 269mg/m3  
PEL 50ppm 270mg/m3  
IDLH carc.  
REACTIVITY  
INCOMPATIBILITY Strong bases, Aluminum, chemically active metals - Ba, Li, N  
DOT HAZARD CLASS ORM-A  
RCRA WASTE NO. U228  
MONITORING DEV. Draeger, HNU 10.2, 11.7  
ION POTENTIAL 9.47

NAME Methylene chloride  
SYNONYM Dichloromethane, methylene dichloride, DCM  
CAS NO. 75-09-2  
EFFECT A volatile, colorless liquid with chloroform-like odor; a susp.  
human carcinogen, inhalation can cause fatigue, lightheadedness a  
nd weakness. Irritates eyes and skin and may cause liver/kidney d  
amage.  
TLV 50ppm - 174mg/m3  
PEL 500ppm  
IDLH carc.  
REACTIVITY  
INCOMPATIBILITY Strong oxidizers and bases; chem. active metals (AL, Na, K, Mg  
DOT HAZARD CLASS ORM-A, POISON B  
RCRA WASTE NO. U080  
MONITORING DEV. Draeger, HNU 11.7  
ION POTENTIAL 11.35

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Site Name: SKF Ball Bearing

Task: Site Recon

Required Level(s) of Protection:

Task	Name	Respiratory	Clothing Cotton = C Saranex = X Tyvek = T Poly = P	Gloves Butyl = B Cotton = C Latex = L Viton = V Neoprene = N	Boots Fireman's = F Latex = L Work = W Slush = S Insulated = I	Other; Modifications
PM	Shari Harris-Dunning	D	C	N/A	W	
SSO	Steve Sottung	D	C	N/A	W	
SMO						
Surveillance	Shari - Harris-Dunning	D	C	N/A	W	
(PA, Site Recon, Etc.)	Steve Sottung	D	C	N/A	W	
If HNU readings exceed background, team members will note the readings in the logbook and move to an area where HNU readings do not exceed background.						
Samplers						
Other						
Decontamination						

ORIGINAL  
(Red)

**Proposed On-Site Activities**

Propose on-site activities will consist of walking the site (inside and out) identifying SWMU's at the facility, and taking pictures

**Monitoring Procedures**

## • Site Monitoring Equipment:

☒ HNU (Probe: 10.2)

☐ Victoreen Radiation Detector

☐ OVA

☒ Radiation Mini-Alert/Monitor 4

☐ Monotox ( ☐ CN ☐ H<sub>2</sub>S )

☐ Explosimeter

☐ Draeger Tube and Pump

☐ O<sub>2</sub> Meter

Type: \_\_\_\_\_

☐ Enmet (combustible gas/O<sub>2</sub>/CO/H<sub>2</sub>S)

☐ Other: \_\_\_\_\_

## • Methods and Frequency of Surveillance: (for compounds greater than 10 percent PELs, see page 4)

Frequent monitoring with the HNU or OVA and the Mini-alert in waste storage areas, raw products storage areas, on-site and disposal areas.

**Monitoring Equipment Calibration**
☒ HNU

- As per manufacturer's recommendations, a field calibration is necessary once every three days. Calibration dates are recorded in the project logbook.

☐ OVA

- As per manufacturer's recommendations, a field calibration is necessary every three days. Calibration dates are recorded in the project logbook.

☒ Mini-Alert

- A battery check and a response check were made prior to leaving the FIT office and will be made immediately prior to instrument use in the field. This field procedure will be documented in the logbook.

☐ Other



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Site Name: SKF Ball Bearing (Red)

### Decontamination and Disposal

Personnel Decontamination: Check level to be utilized.

- ☐ Level A - Segregated equipment drop, boot cover and glove wash, boot cover and glove rinse, tape removal, boot cover removal, outer glove removal, suit and hard hat removal, SCBA backpack removal, inner glove wash, inner glove removal, inner clothing removal, field wash redress.
- ☐ Level B - Segregated equipment drop, boot cover and glove wash, boot cover and glove rinse, tape removal, boot cover removal, outer glove removal, SCBA backpack removal, suit and hard hat removal, inner glove removal, field wash.
- ☐ Level C - Segregated equipment drop, boot cover and glove wash, boot cover and glove rinse, tape removal, boot cover removal, outer glove removal, suit/safety boot wash, suit/safety boot rinse (canister or mask change), safety boot removal, splash suit removal, inner glove removal, field wash.
- ☐ Level D - Segregated equipment drop, boot and glove wash, boot and glove rinse, field wash.

☒ No personnel decontamination is necessary.

☐ Modifications (specify):

\_\_\_\_\_

\_\_\_\_\_

Equipment Decontamination:

N/A

Disposal Procedure for Investigation-Derived Materials:

Investigation-derived waste materials will  
be properly disposed of.

Ionizing Radiation:

Normal background 0.01 to 0.02 mR/hr

- If less than 2 mR/hr, continue investigation with caution
- If greater than 2 mR/hr, evacuate site

\* *Note: Background 10 to 20 CPM on mini-alert*

**SITE OPERATING PROCEDURES/SAFETY GUIDELINES**

1. Always observe the buddy system. Never enter or exit a site alone, and never work alone in an isolated area. Never wander off by yourself.
2. Always maintain line-of-sight.
3. Practice contamination avoidance. Never sit down or kneel, never lay equipment on the ground, avoid obvious sources of contamination such as puddles, and avoid unnecessary contact with on-site objects.
4. No eating, drinking, or smoking outside the designated "clean" zone.
5. In the event PPE is ripped or torn, work shall stop and PPE shall be removed and replaced as soon as possible.
6. Be alert to any unusual changes in your own condition; never ignore warning signs. Notify Health and Safety Coordinator as to suspected exposures or accidents.
7. A vehicle will be readily available exclusively for emergency use. All FIT personnel going on site shall be familiar with the most direct route to the nearest hospital.
8. In the event of direct skin contact, the affected area shall be washed immediately with soap and water.
9. Copies of the health and safety plan shall be readily accessible at the command post.
10. Note wind direction. Personnel shall remain upwind whenever possible during on-site activities.
11. Never climb over or under refuse or obstacles. Use safety harness/safety lines when sampling lagoons, streambeds, and ravines with steep banks.
12. Hands and face must be thoroughly washed before eating, drinking, etc.
13. Any modifications to this safety plan must be approved by the RHSM or designee.

**Special Procedures:**

In addition to NUS Health and Safety procedures, FIT 3 team members will follow the safety regulations required by the facility.

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### SITE PROCEDURES (continued)

#### Safety Glasses

☒ Safety glasses will be worn in heavily wooded areas where the potential of an eye injury may exist.

#### LifeAir<sub>10</sub> Escape Packs

☐ LifeAir<sub>10</sub> escape packs will be carried or located within proximity to FIT 3 members whenever an SCBA is not readily available on site.

#### Heat and Cold Stress Monitoring

☒ Team members will follow heat stress monitoring procedures.

☐ Team members will follow cold stress monitoring procedures.

#### Confined-Space Entry

☒ No attempt will be made to enter abandoned buildings, manholes, tanks, or any other confined areas.

☐ Other: Team members will be entering active buildings in order to perform EPI/PA activities. Since these buildings are occupied by facility personnel throughout the workday and they are being regulated by other OSHA standards, they are deemed safe for occupancy and NUS team members may enter these areas to perform their PA activities. NUS personnel will follow standard industrial safety protocol and any other special protocol established by the facility health and safety requirements.

#### Medical Surveillance

☐ No site-specific medical surveillance is required for this task.

☐ Medical surveillance will be as follows:

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#### Personnel Monitoring

☒ Personnel monitoring will include only the use of the TLD badge. No further personnel monitoring is required.

☐ Personnel monitoring will consist of:

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Topic	Shari Harris-Dunning	Steve Sotting										
	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date
Introduction (40 hours)	6/90	1/87										
Sampling	↓											
Decontamination		8/88										
HNU	↓	12/89										
First Aid	8/90	8/89										
CPR	↓	8/90										
SCBA Review	12/90	12/90										
FIT Test (Ultra-Twin)	↓	↓										
FIT Test (Dustfoe)	↓	↓										

## EMERGENCY SITUATIONS

### Air Releases or Fire/Explosion:

In the event of an unexpected air release or fire/explosion, on-site personnel will travel at a right angle to the upwind direction. The site safety officer (SSO) will then account for all personnel and notify the proper emergency agencies.

In the event the SSO is unavailable, the project manager will assume these responsibilities.

### Emergency Site Control:

In the event of an emergency, the SSO will discourage any unauthorized personnel from entering the site. If necessary, the SSO will contact the proper authorities.

### Personnel Injury:

If on-site personnel require emergency medical treatment, the following steps will be taken:

1. Evaluate the nature of the injury.
2. Decontaminate to the extent possible prior to administration of first aid or movement to emergency facilities.

### First Aid Procedures:

- Skin Contact: Remove contaminated clothing. Wash immediately with water. Use soap if available.
- Inhalation: Remove from contaminated atmosphere. Apply artificial respiration, if necessary. Transport to hospital.
- Ingestion: Never induce vomiting on an unconscious person. Also, never induce vomiting when acids, alkalis, or petroleum products are suspected. Contact the poison control center.
- Equipment Failure: In the event that air monitoring equipment fails to operate, all personnel will exit the site immediately and notify the RHSM or designee for further instructions.

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Site Name: SKF Ball Bearing (Red)

**Communication Procedures:**

Verbal Communication is the emergency signal to indicate that all personnel should leave the exclusion zone.

The following standard hand signals will be used in case of failure of radio communications:

- Hand gripping throat ..... Out of air, can't breathe
- Grip partner's wrist or both hands around waist ..... Leave area immediately
- Hands on top of head ..... Need assistance
- Thumbs up ..... OK; I am all right; I understand
- Thumbs down ..... No; negative

The following will be used on an "as-needed" basis (check proper response):

N/A

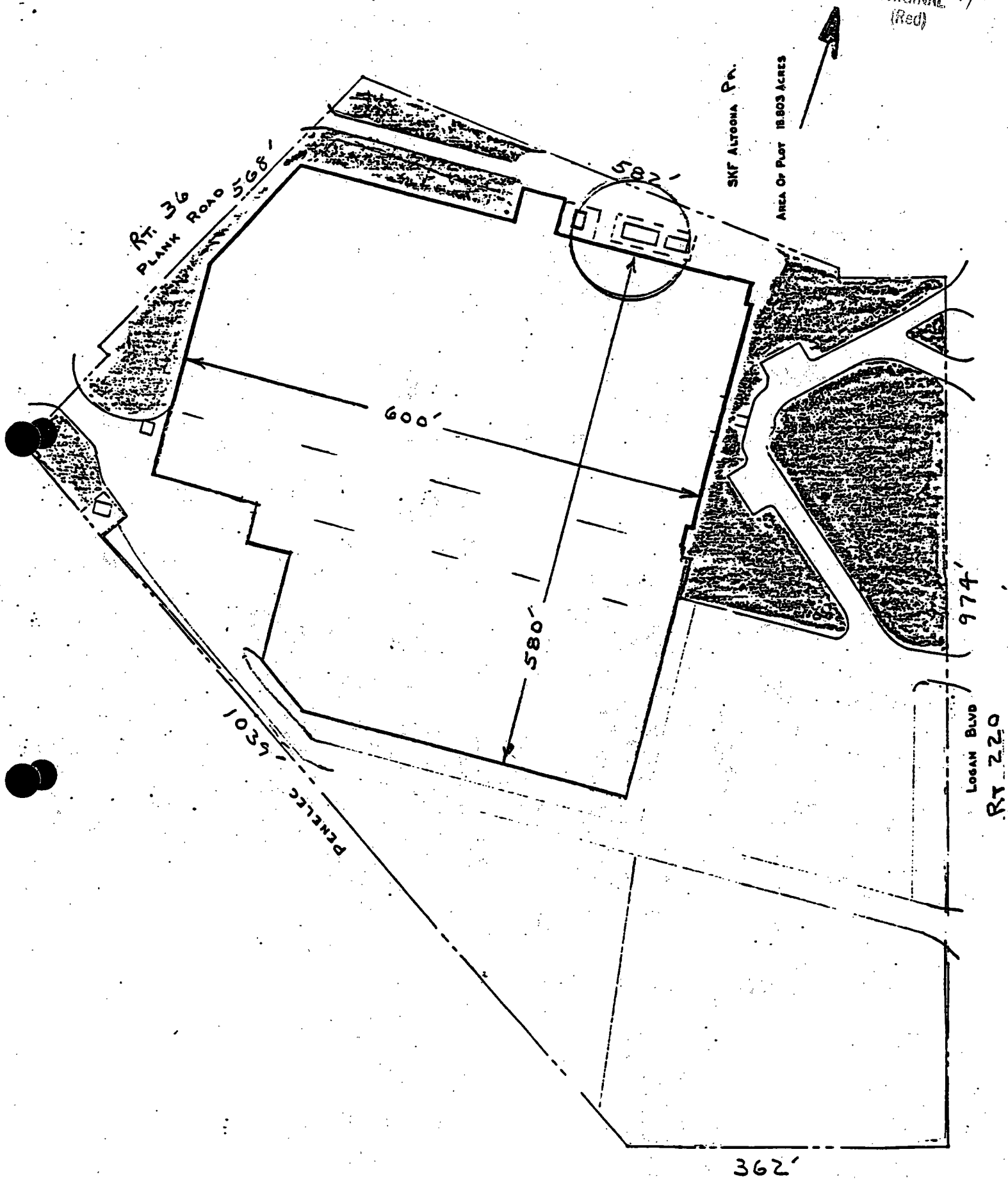
\_\_\_\_\_ Channel \_\_\_\_\_ has been designated as the radio frequency for personnel in the exclusion zone. All other on-site communications will use channel \_\_\_\_\_.

\_\_\_\_\_ Telephone communication to the command post should be established as soon as practicable. The phone number is: (\_\_\_\_\_) \_\_\_\_\_.

\_\_\_\_\_ Channels 1 and 2 have been designated as the radio frequency for personnel in the exclusion zone. Team members will make sure that all radios are on the same channel before leaving the command post.

Site sketch

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SKF Ball Bearing  
ORIGINAL  
(Red)



1" = 135'

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Site Name: SKF Ball Bearing <sup>ORIGINAL</sup>

**Emergency Information:**

● Local Resources:

- Ambulance (name): AMED Phone: (814) 943-8993
- Hospital (name): Altoona Hosp. Howard Ave. + Seventh St. Phone: (814) 946-2223
- Police (local or state): city of Altoona Phone: 949-2489
- Fire Department: Altoona Phone: 911  
(name and volunteer?)
- Radio Channel: N/A Phone: N/A
- Nearest Phone: On-site Phone: (814) 944-5381

● Office Resources:

- Region III FIT Office ..... (215) 687-9510
- EPA RPO - Gregory Ham ..... (215) 597-8229
- Office Manager - Garth Glenn (home) ..... (215) 947-5806
- Operations Manager - Andrew Frebowitz (home) ..... (215) 362-4734
- Safety - Marcia Case (home) ..... (215) 692-7729
- Safety - Bill Barnes (home) ..... (215) 326-5194
- Zone - Paul Clay (office) ..... (703) 522-8802

● Emergency Contacts (medical and health):

\* NUS Consulting Physician - University of Pittsburgh

Office ..... (412) 648-3240

Please follow procedures as outlined on the following page.

\* Elmer Burd (NUS Zone Health and Safety Manager)

Office ..... (412) 788-1080  
Home ..... (412) 335-0205

\* Regional Health Maintenance Program

- Thomas Jefferson Hospital  
Cassie ..... (215) 928-6918
- Occupational Health Center  
Michael LeWitt, M.D. .... (215) 431-2262

\* Poison Information Center ..... (215) 922-5523

\* National Response Center ..... (800) 424-8802  
(FOR ENVIRONMENTAL EMERGENCY ONLY)

Directions to Hospital (attach map): Take a left out of lot onto Logan Blvd.  
Bear right on Plank Rd; Bear left on Union Avenue; Turn right  
on 6<sup>th</sup> Avenue; turn left on 8<sup>th</sup> Avenue - cross Howard - follow  
hospital signs for parking.



**EMERGENCY PHYSICIAN ACCESS PLAN**  
**NUS CORPORATION SUPERFUND DIVISION**  
**DECEMBER 1986**

**A. MONDAY THROUGH FRIDAY, 9:00 AM TO 5:00 PM**

Dial the (412) 648-3240 number. When answered, state that:

1. You are calling from NUS Corporation.
2. This is an emergency call.

Program staff will be alerted how to contact the physician designated to provide emergency coverage on that day. Collect calls will be accepted.

**B. EVENINGS, WEEKENDS, AND HOLIDAYS**

Dial the (412) 648-3240 number. An operator from the answering service will answer the telephone. Do the following:

1. Tell the operator that you are calling from NUS Corporation
2. Tell the operator that this is an emergency call.
3. Give her your name.
4. Give her the telephone number where the physician is to call. Be certain that she has written the correct number (area code and seven digits).
5. If you do not receive a call back within 15 minutes, place a second call to (412) 648-3240.

Collect calls will be accepted.

**C. SITUATIONS WHERE EMPLOYEE REQUIRES IMMEDIATE TRANSPORT TO A HOSPITAL**

If the situation is life threatening (i.e., cardiac arrest or person not breathing), call the emergency medical services system and transport the person to the nearest hospital with advanced life support capabilities.

After obtaining assistance as stated above, call the (412) 648-3240 number and follow the procedures in A or B as appropriate.